

Amendment Dated: September 29, 2006

IN THE CLAIMS:

Please amend claims 1-4 and add claim 5 as follows:

1. (Currently Amended) An electronic ballast with life-ended protection comprising: a rectifier and filter circuit, a DC/AC inverter circuit and a resonant circuit, an input of the rectifier and filter circuit ~~beenbeing~~ connected to an outside power supply, itsan output of said rectifier and filter circuit beenbeing connected to ~~the~~inputs of the DC/AC inverter circuit, an output of the DC/AC inverter circuit ~~beenbeing~~ connected to ~~the~~inputs of resonant circuit, and an output of the resonant circuit ~~beenbeing~~ connected to a lamp, ~~characterized in that: also comprising~~ a feedback driver circuit and a filament current loop connected to the lamp at itsan input of said feedback driver circuit, an input of the feedback driver circuit ~~beenbeing~~ connected to the filament current loop, its-an output of said feedback driver circuit beenbeing connected to ~~the~~a control terminal of the DC/AC inverter circuit, electrical signals of the filament current loop ~~be~~controlling the DC/AC inverter circuit to drive the resonant circuit through the feedback driver circuit.

2. (Currently Amended) The electronic ballast with life-ended protection according to claim 1, ~~characterized in that:~~ wherein the feedback driver circuit further includes a feedback drive transformer connected to the lamp filament current loop at itsa primary winding of said transformer and to the input of the DC/AC inverter circuit at itsa secondary winding of said transformer.~~is used for the feedback driver circuit.~~

3. (Currently Amended) The electronic ballast with life-ended protection according to claim 1, ~~characterized in that:~~further including a lamp filament compacitor circuit having a filament capacitor loop connected to one end of the lamp at its input and to the input of the feedback driver circuit at its output.~~is used for the said lamp filament capacitor circuit.~~

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4. (Currently Amended) The electronic ballast with life-ended protection according to claim 1 ~~or 2, characterized in that:~~ further including a filament capacitor loop used for ~~the said~~ a lamp filament capacitor circuit includes a capacitor and a thermal resistor in parallel, an input of the filament capacitor loop is connected to one end of the lamp, ~~its~~ an output of said loop is connected to the primary winding of ~~the~~ a feedback drive transformer, an output of ~~the~~ a primary winding is connected to ~~the other~~ another end of the lamp, ~~the~~ a secondary winding of the feedback drive transformer is connected for providing a drive power to bases of ~~the~~ two triodes of the DC/AC inverter circuit, respectively.

5. (New) The electronic ballast with life-ended protection according to claim 2 further including a filament capacitor loop used for a lamp filament capacitor circuit includes a capacitor and a thermal resistor in parallel, an input of the filament capacitor loop is connected to one end of the lamp, an output of said loop is connected to the primary winding of the feedback drive transformer, an output of the primary winding is connected to the other end of the lamp, the secondary winding of the feedback drive transformer is connected for providing a drive power to bases of two triodes of the DC/AC inverter circuit, respectively.